TC-H300

SERVICE MANUAL

E Model Australian Model

This model is almost the same as the model TC-818 previously produced. Therefore, see the TC-818 service manual for the information not contained in this service manual.

- TC-H300 is the cassette deck section in FH-E828.
- PARTS LIST (The difference between TC-818 and TC-H300.)

EXPLODED VIEWS

Page on TC-818 service		TC-818	TC-H300	
manual.	Ref. No.	Part No.	Part No.	Description
	1	X-3340-151-1	X-3358-505-1	LID (B) ASSY, CASSETTE
	2	X-3340-150-1	X-3340-145-1	LID (A) ASSY, CASSETTE
18	3	X-3340-154-1	X-3358-504-1	PANEL ASSY, FRONT
	32	X-3340-153-1	X-3340-148-1	BUTTON (B) ASSY
	33	X-3340-152-1	X-3340-147-1	BUTTON (A) ASSY



SERVICE MANUAL

E Model



TC-818 is the cassette deck section in FH-818R.

Model Name Using Similar Mechanism	TC-WR808M				
Tape Transport	Deck A TCM-170RA1				
Mechanism Type	Deck B TCM-170RB7				

SPECIFICATIONS

Recording system Frequency response

4-track 2-channel stereo

Used cassette	·
TYPE I (Sony HF-S)	40-13,000 Hz (±3 dB)
TYPE II (Sony UCX)	40-14,000 Hz (±3 dB)

Wow and flutter

0.1% WRMS ± 0.2% (DIN)

Dimensions/Weight

	Approx. 225 x 120 x 230 mm (8 ⁷ / ₈ x 4 ³ / ₄ x 9 ¹ / ₈ inches)	Approx. 2.6kg (5 lb 12 oz) net
1		

* incl. projecting parts and controls

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol [1] are trademarks of Dolby Laboratories Licensing Corporation.

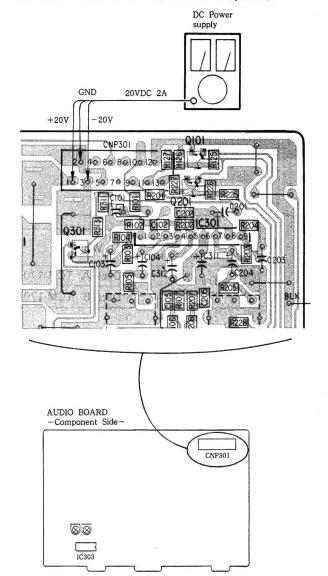


REPAIRING PRECAUTION

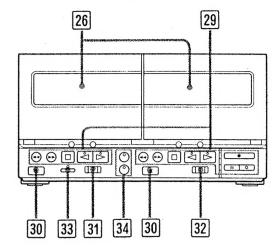
[To apply B+ voltage]

The power of this unit is fed from amlifier.

Because of this, connect the DC Power supply as illustrated below when this unit alone operates.



PARTS IDENTIFICATION



- [26] Cassette holder
- [29] Tape operation buttons

→ :Fast winding

- >:Forward play
- []:Stop
- :Pause
- O:Record muting
- : Record
- 31 DIRECTION MODE selector
- 32 DOLBY NR switch
- [33] AMS/BLANK SKIP button
- 34 DUBBING SPEED selectors

SAFETY-RELATED COMPONENT WARNING!!

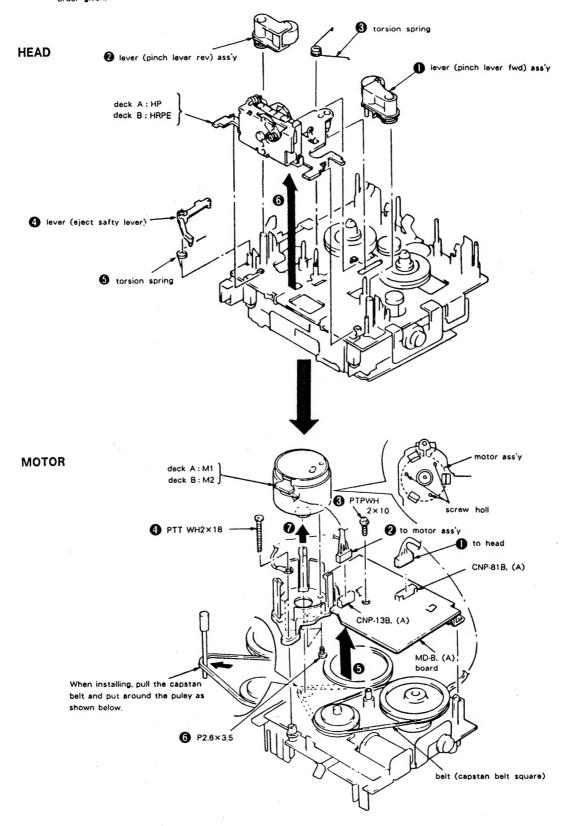
COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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Sect	ion	Title	Pa	ge	Secti	ion	Title	Pa	age
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SECTION 1 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.



SECTION 2 ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS PRECAUTION

 Clean the following parts with a denaturedalcohol-moistened swab:

record/playback head

pinch roller

erase head

rubber belts

capstan

idler

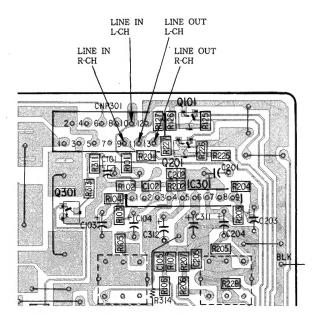
- Demagnetize the record/playback head with a head demagnetizer,
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the perts adjusted.

Torque Measurement

Torque	Torque Meter	Meter Reading
FWD	CQ-102C	27 to 75g · cm (0,378 to 1.05 oz · inch)
FWD Back tension	CQ-102C	1 to 10g · cm (0.014 to 0.14 oz · inch)
REV	CQ-102RC	27 to 75g · cm (0.378 to 1.05 oz · inch)
REV Back Tension	CQ-102RC	1 to 10g · cm (0.014 to 0.14 oz · inch)
FF, REW	CQ-201B	95 to 165g · cm (1.33 to 2.31 oz · inch)

Location of LINE IN/OUT

AUDIO Board CNP301



2-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in the service manual.

The adjustments should be performed for both L-CH and R-CH,

 Switches and controls should be set as follows unless otherwise specified,

DOLBY NR switch

: OFF

TAPE SELECT switch

: TYPE I

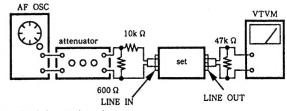
DIRECTION MODE switch

: ____

· Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level;

-Record Mode-



Standard Input Level

	LINE IN
source impedance	10k Ω
input level	0.25V (-10dB)

Standard Output Level

	LINE OUT
load impedance	47k Ω
output level	0,44V (-5dB)

· Test tape

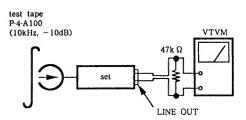
Туре	Signal	Used for
P-4-A100	10kHz, -10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB LEVEL Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

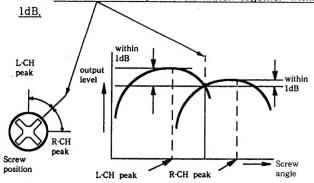
DECK A DECK B

Procedure:

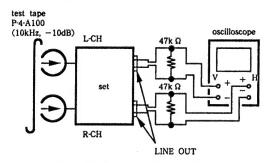
1. Mode: FWD playback

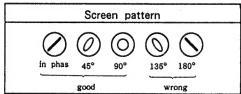


Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within



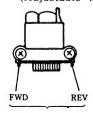
Phase CheckMode: playback



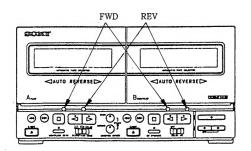


- 4. Set in the REV mode and repect the step 1-3.
- After the adjustment, lock the screws with locking compound.

Adjustment Location: Record/Playback head (Adjustable without disassembly,)



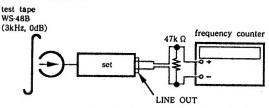
Adjustment screw



Tape Speed Adjustment DECK A DECK B

Procedure:

Mode: FWD playback



Perform high speed adjustment before normal speed adjustment.

Connect TP1 to ground with jumper wire and continue to press HIGH SPEED DUBING switch: High speed playback. After the high speed adjustment, remove jumper wire of TP1.

Play back the test tape WS-48B and ajust to meet the specifications below.

speed	deck	Adjustment part	variable resistor of motor	test pin CN811	frequency countor reading
high	A	M11A	(H)	-1	F 000 1 00
ngn	В	M11B	(H)	short	5,960±30
normal	Α	M11A	(L)		0.000 + 15
normai	В	M11B	(L)	open	2,980±15

Frequency difference between the beginning and the end of the tape should be within 3%.

Frequency difference between deck A and deck B the beginning of the tape should be within 1,5%.

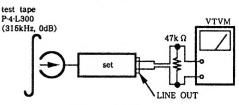
Adjustment Location:

deck A: motor (M11A) rear side deck B: motor (M11B) rear side

Playback Level Adjustment DECK A DECK B Procedure:

Mode: playback

Connect TP1 to ground.



Adjust deck A: RV41A(L-CH), RV61A(R-CH) and deck B: RV41B(L-CH), RV61B(R-CH) so that the reading on VTVM meets the specification below.

LINE OUT LEVEL: -10±0.8dB

Level difference between channels: less than 0.5dB Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: MD board

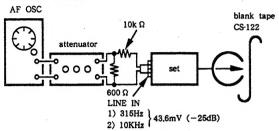
Record Bias Adjustment DECK B

Setting:

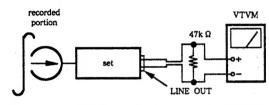
REC LEVEL control: standard record (See page 4.)
Connect TP1 to ground.

Procedure:

1. Mode: record



2. Mode: playback



Confirm that the 10kHz playback output is $0\pm0.5dB$ relative to the 315Hz output. If necessary, adjust RV42 (L-CH), RV62 (R-CH) and repeat the steps given above. After the ajustment remove jumper wire of TP1.

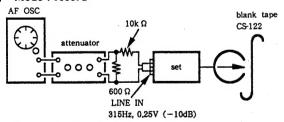
Adjustment Location: MD B board (US, Canadian model)
HX PRO board (AEP, UK model)

Record Level Adjustment DECK B Setting:

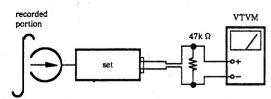
REC LEVEL control: standard record (See page 4.) Connect TP1 to ground.

Procedure:

1. Mode: record



Mode: playback

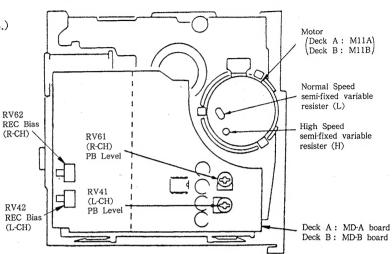


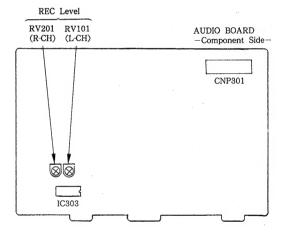
- Play back the signal recorded in step 1.
 Confirm that the signal level is within the specification below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step1-3.
- 4. After the adjustment, remove jumper wire of TP1.

LINE OUT level: -8dB±0.5dB

Adjustment Location: audio board

-Adjusting Parts Location Diagram-





SECTION 3 DIAGRAMS

3-1. IC801 M50964-212FP PIN FUNCTIONS

TYPE I	ON OFF ON	ED out ED out Prever 1.9 V ON ON ON ED out LED out	on output tput tput ttput 2.8 V ON OFF 0.7 B A H DUB	out	V 5	etection V FF OFF 2.3 A B	input 2.8 A ▶▶	(Anal	ogue) 4.0 DIB C	4.5 DICI C RELAY	5.0 OFF
TYPE I	A RVS L RVS L RVS L RVS L RVS L RVS L RECORD ON OFF ON ON OFF ON AMS RVS L AMS RVS L AMS RVS L	ED out ED out ED out prever 1.9 V ON ON ON ED out LED out LED out LED out	tput tput tput tion c 2.8 V ON OFF OFF 0.7 B A HDUB ttput ttput ttput	law A, 3.9 ON ON OFF	V 5	OFF OFF OFF A 44	2.8 A >>	3.4	4.0 DC B	DKIC	OFF
TYPE 1	A RVS L A RVS L B Record ON OFF ON ON A B A A A A A A A A A A A A A A A A A	ED out ED out prever 1.9 V ON ON ON ED out LED out LED out LED out	tput tput tput tion c 2.8 v ON OFF OFF 0.7 B A HDUB ttput ttput ttput	llaw A, 7 3.9 ON ON OFF	V 5	OFF OFF OFF A 44	2.8 A >>	3.4	4.0 DC B	DKIC	OFF
Deck A	A RVS L A RVS L B Record ON OFF ON ON A B A A A A A A A A A A A A A A A A A	ED out ED out prever 1.9 V ON ON ON ED out LED out LED out LED out	tput tput tput tion c 2.8 v ON OFF OFF 0.7 B A HDUB ttput ttput ttput	llaw A, 7 3.9 ON ON OFF	V 5	OFF OFF OFF A 44	2.8 A >>	3.4	4.0 DC B	DKIC	OFF
Deck B Voltage (V	Record ON OFF ON ON OFF ON A A AMS B RVS L A FWD I B REC L	Prever 1.9 V ON ON ON ON ED OU LED OU	OFF OFF OT OT OT OT OT OT OT OT	7 3.9 ON ON OFF	V 5	OFF OFF OFF A 44	2.8 A >>	3.4	4.0 DC B	DKIC	OFF
Voltage (V	ON OFF ON	ON ON ON ON ON ED OU	2.8 V ON OFF OFF 0.7 B A H DUB	7 3.9 ON ON OFF	V 5	OFF OFF OFF A 44	2.8 A >>	3.4	4.0 DC B	DKIC	OFF
Voltage (V	ON OFF ON	ON ON ON ON ON ED OU	2.8 V ON OFF OFF 0.7 B A H DUB	7 3.9 ON ON OFF	V 5	OFF OFF OFF A 44	2.8 A >>	3.4	4.0 DC B	DKIC	OFF
Claw A Claw B	OFF ON ON ON OFF ON ON OFF ON ON OFF ON ON OFF ON	ON O	OFF OFF 0.7 B A H DUB stput ttput	1.2 B A A	7 0	2,3 A •••	A >>		□□ В	DKIC	OFF
Claw B	ON nput O B AMS AMS B FWD I B RVS L A FWD I B PAUSE B REC L	ON 0.3 BII AII LED OU LED OU LED OU	OFF 0.7 B A H DUB ttput ttput	1.2 B◀ A◀	1.7	2,3 A •••	A >>		□□ В	DKIC	OFF
EY3 KEY in EY2 Voltage (V	nput y) 0 B A AMS B FWD I B RVS L A FWD I B PAUSE B REC L	0.3 BII AII LED ou ED ou LED ou	0.7 B A H DUB Atput ttput	1.2 B◀ A◀	1.7	2,3 A 44	A >>		□□ В	DKIC	OFF
Voltage (V KEY1	OV) 0 B A AMS B FWD I B RVS L A FWD I B PAUSE REC L	BII AII ED ou LED ou LED ou	A A DUB	B◀ A◀		A 44	A >>		□□ В	DKIC	OFF
KEY1	AMS AMS AMS B RVS L A FWD I B PAUSE B REC L	BII AII ED ou LED ou LED ou	A A DUB	B◀ A◀		A 44	A >>		□□ В	DKIC	OFF
KEY2 KEY3 FWD Deck E REV Deck E FWD Deck A AUSE Deck E REC Deck E	AMS AMS B FWD I B RVS L A FWD I B PAUSE B REC L	ED ou LED ou	A DUB atput tput utput	A◀	BO		-	В●	-	1	
EY1 KEY3 FWD Deck E REV Deck E FWD Deck A AUSE Deck E REC Deck E	AMS B FWD I B RVS L A FWD I B PAUSE B REC L	LED ou ED ou LED ou	H DUB atput tput utput				D			I KBB/11	
FWD Deck E REV Deck E FWD Deck A AUSE Deck E REC Deck E	B FWD I B RVS L A FWD I B PAUSE B REC L	ED ou LED ou LED	itput tput utput			1	1	1	1	11	
FWD Deck A AUSE Deck E REC Deck E	A FWD I B PAUSE B REC L	LED 01	ıtput								
AUSE Deck E	B PAUSE B REC L	LED									
AUSE Deck E	B PAUSE B REC L	LED			-						
REC Deck E	B REC L									······	
			Deck B REC LED output								
	Dolby B/C output										
	SIRCS input or AUDIO BUS reverse input Playback EQ output for playing deck										
	BUS ou		TOI PIA	.y 1118 G							
			t					****			
	, pos uc	orman i	приі								
			input								
											
)								
	used: OP	EN)									
ss GND											
EST Electric	cal adjus	ting te	st mod	le sett	ing						
PE IV TYPE	IV switch	n input	:								
<u>∕120</u> Deck F	в түре	II swit	ch inp	ut							
SHUT Deck F	B Reel ta	able sig	gnal in	put							
/120 Deck A	A TYPE	II swi	tch inp	out							
SHUT Deck I	B Reel ta	able sig	gnal in	put							
HALF Deck A	A Half s	witch	input								
MSIN AMS s	signal inp	put									
Neter	mute ou	tput		 							M. C
			utput								
noo raoo .				ıtput		*****					
								-			
	SET Microc SET Microc SET Microc SIN Clock CO Clock CO (Not to STS GND SEST Electri PE IV TYPE 120 Deck SHUT Deck	SET Microcomputer CIN Clock input (4 CO Clock output (4 CO Clock output (9 CNOT used: OP C	SET Microcomputer reset CIN Clock input (4 MHz) CO Clock output (10 MHz) CO	Microcomputer reset input Clock input (4 MHz) Clock output (4 MHz) Clock output (4 MHz) Clock output (4 MHz) (Not used: OPEN) SS GND EST Electrical adjusting test mod PE IV TYPE IV switch input Deck B TYPE II switch input Deck B Reel table signal in Deck A TYPE II switch input Deck B Reel table signal in SHUT Deck B Reel table signal in HALF Deck A Half switch input MSIN AMS signal input MUTE Meter mute output TUTE Line mute output TUTE PASS AMP change output TYPE IV SWITCH IN SWITCH INPUT TOTAL T	Microcomputer reset input Clock input (4 MHz) Clock output (4 MHz) Clock output (4 MHz) (Not used: OPEN) CSS GND CST Electrical adjusting test mode sett PEIV TYPE IV switch input Deck B TYPE II switch input Deck B Reel table signal input MSIN AMS signal input MIUTE Meter mute output TUTE Line mute output TUTE Dolby IC REC/PB select output	Microcomputer reset input Clock input (4 MHz) Clock output (4 MHz) (Not used: OPEN) CSST Electrical adjusting test mode setting PEIV TYPE IV switch input TOTE Deck B Reel table signal input MSIN AMS signal input MITE Meter mute output TOTE Line mute output TOTE Deck AMP change output	Microcomputer reset input Clock input (4 MHz) Clock output (4 MHz) (Not used: OPEN) CSS GND CSST Electrical adjusting test mode setting PEIV TYPE IV switch input 120 Deck B TYPE II switch input SHUT Deck B Reel table signal input NOTE SHUT Deck B Reel table signal input CHUT Deck B Reel table signal input MALF Deck A Half switch input MSIN AMS signal input MUTE Meter mute output TUTE Line mute output ASS PASS AMP change output Dolby IC REC/PB select output	Microcomputer reset input Clock input (4 MHz) Clock output (4 MHz) (Not used: OPEN) CSS GND CST Electrical adjusting test mode setting PEW TYPE IV switch input 120 Deck B TYPE II switch input SHUT Deck B Reel table signal input SHUT Deck B Reel table signal input SHUT Deck B Reel table signal input MSIN AMS signal input MITE Meter mute output TUTE Line mute output TUTE Deck AMP change output	SET Microcomputer reset input CIN Clock input (4 MHz) CO Clock output (4 MHz) (Not used: OPEN) SS GND EST Electrical adjusting test mode setting PEIV TYPE IV switch input / 120 Deck B TYPE II switch input SHUT Deck B Reel table signal input / 120 Deck A TYPE II switch input SHUT Deck B Reel table signal input / 120 Deck A TYPE II switch input SHUT Deck B Reel table signal input MILTE Deck A Half switch input MILTE Meter mute output TUTE Line mute output ASS PASS AMP change output TYPE IV switch input ASS PASS AMP change output	SET Microcomputer reset input Clock input (4 MHz) Clock output (4 MHz) (Not used: OPEN) SS GND EST Electrical adjusting test mode setting PEIW TYPE IV switch input 120 Deck B TYPE II switch input Deck B Reel table signal input 120 Deck A TYPE II switch input SHUT Deck B Reel table signal input Deck B Reel table signal input HALF Deck A Half switch input MSIN AMS signal input TUTE Meter mute output TUTE Line mute output ASS PASS AMP change output	SET Microcomputer reset input Clock input (4 MHz) CO Clock output (4 MHz) (Not used: OPEN) SS GND EST Electrical adjusting test mode setting PEIV TYPE IV switch input Deck B TYPE II switch input Deck B Reel table signal input Deck B Reel table signal input Deck B Reel table signal input BHUT Deck B Reel table signal input CHUT Deck B Reel table signal input MINT Deck A Half switch input MINT Meter mute output TUTE Line mute output TUTE Line mute output DOINY IN TERCT PB select output

PIN No.	PIN NAME	1/0	SIGNAL NAME	FUNCTION
44	P12	0	AMS A∕B̄	AMS AMP input Deck A/B select output
45	P11	0	SEL A $/\overline{B}$	Dolby IC PB input Deck A/B select output
46	P10	0	BIAS I	TYPE I bias oscillation output
47	P07	0	RELAY	REC/PB change relay output
48	P06	0	PM B	Deck B plunger hold output
49	P05	0	KICK B	Deck B plunger kick output
50	P04	0	PM A	Deck A plunger hold output
51	P03	0	KICK A	Deck A plunger kick output
52	P02	0	B H∕L	Deck B capstan motor speed select
53	P01	0	A H∕Ī	Deck A capstan motor speed select
54	P00	0	M ON/OFF	Capstan motor ON/OFF
56	P27	0	REC MUTE	REC MUTE output
57	P26	0	B SCHMITT	Deck B reel table schmitt output
58	P25	0	A SCHMITT	Deck A reel table schmitt output
59	P24	0	HDUB	High Speed Dubbing LED output
60	P23	0	NDUB	Normal Speed Dubbing LED output
61	P22	0	CD DUB	Auto CD Synchro LED output
62	P21	0	A PAUSE	Deck A PAUSE LED output
63	P20	0	SIRCS/AUB	SIRCS/AUDIO BUS mode select
64	Vss		Vss	GND
67	Vcc		Vcc	POWER 5 ±0.5 V
68	AVSS		AVSS	Analogue systen GND
69	VREF	I	VREF	Analogue system reference voltage input
70	D-A	0	D-A	D/A conversion output (Not used:OPEN)
71	PWM	0	PWM	PWM output (Not used: GND)
72	P63	0	ĀMS	AMS LED indication output

[TEST MODE]

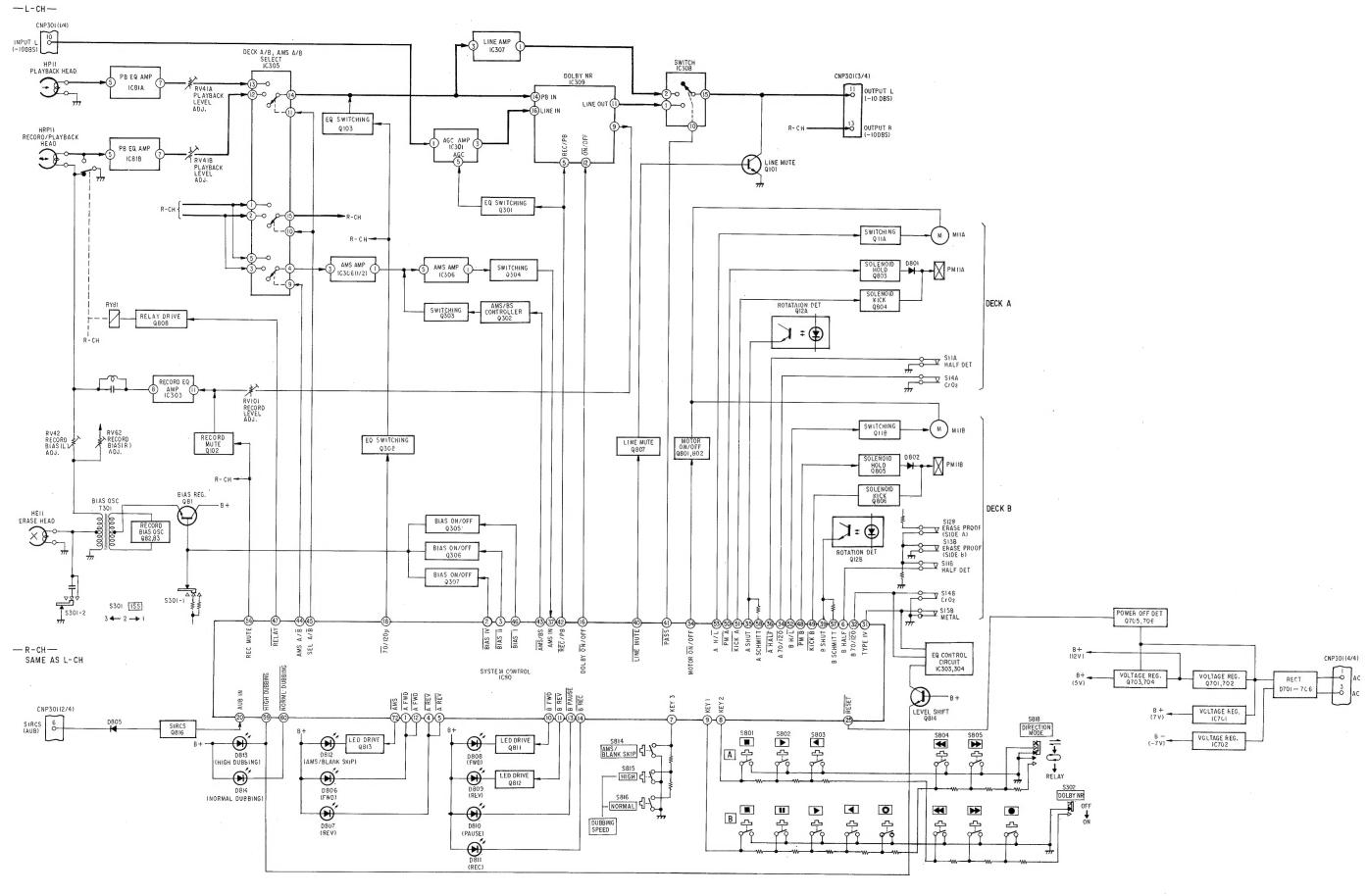
When making pin ® low (connect TP1 to ground with jumper wire), following function operates.

- 1. Source monitor
 Release the line mute while recording.
- High speed playback
 On recording, while pressing HIGH SPEED
 (DUBBING) button, high speed playback operates.
- Record memory stop
 Using DIRECTION MODE switch ≒, returns to
 the recording start point and stops or plays.

4. LED indication of slide switch
When making Deck B pause, LED indicates the
positions of DIRECTION MODE switch.

Switch	Position	LED
DIRECTION MODE	=	Deck A ◀
	0	Deck A PLAY
	RELAY	Deck A ▶
MODE	NORM	Deck B ◀
	FADE	Deck B PLAY
	ERASE	Deck B ▶

3-2. BLOCK DIAGRAM



3-3. PRINTED WIRING BOARDS

See page 20 for Semiconductor Lead Layouts.

Note on Printed Wiring Boards:

- o---: parts extracted from the component side.
- : parts mounted on the conductor side.

Semiconductor Location

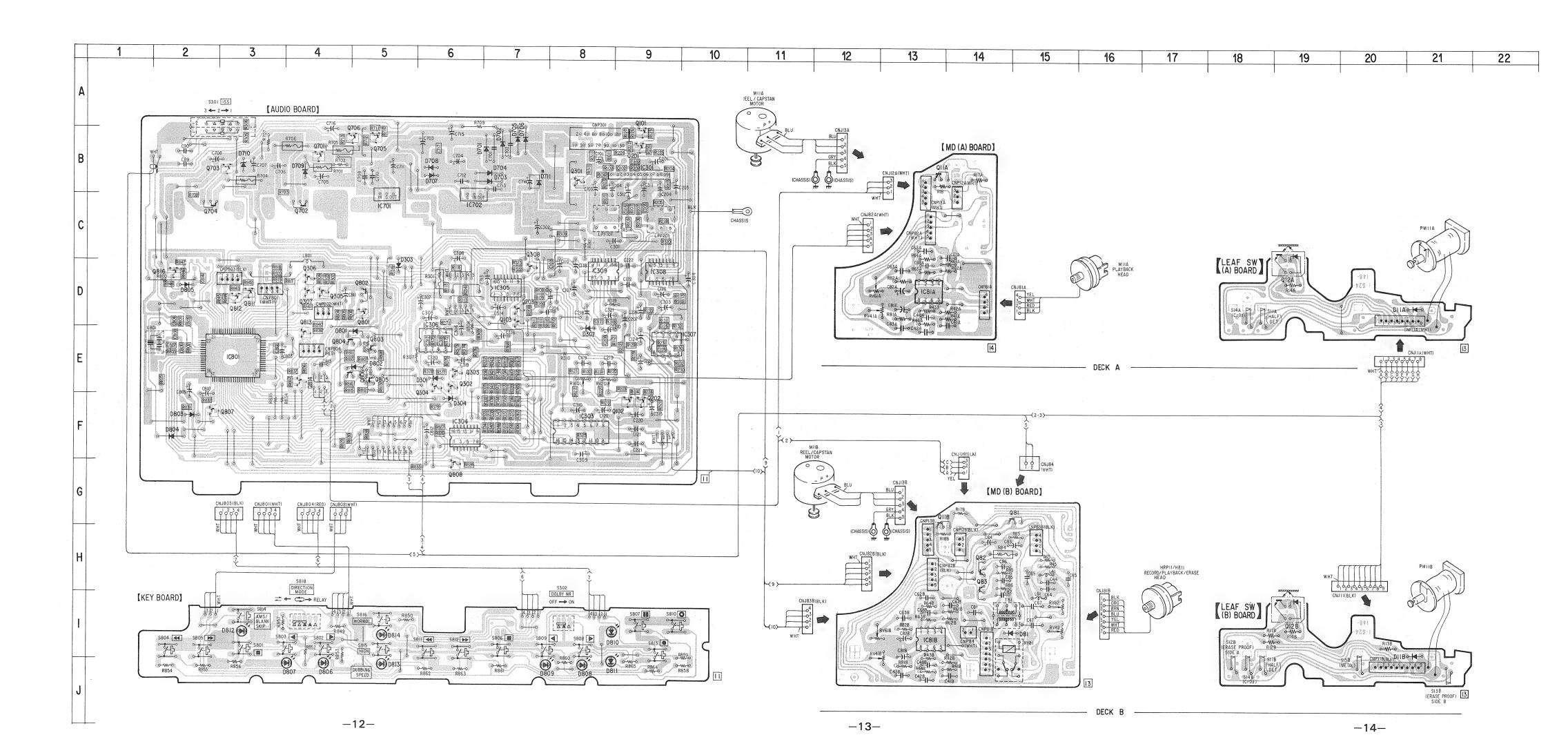
Ref. No.	Location	Ref. No.	Location
D11A D11B D81 D301 D302 D303 D304 D701 D702 D703 D704 D705 D706 D707 D708 D710 D711 D801 D802 D803 D804 D805 D806 D807 D808 D809 D810 D811 D811 D811 D812 D813 D814 IC81A IC81A IC81A IC305 IC306 IC307 IC308 IC309 IC30	D-21 I-21 I-26-8-5-6-7-7-7-7-7-6-6-4-3-7-5-5-2-2-2-4-4-8-7-8-8-3-5-5-3 I-1-9-8-6-7-6-9-9-8-5-6-3 I-1-9-8-6-7-6-9-9-8-5-6-3 I-1-9-8-6-7-6-9-9-8-5-6-3	Q11A Q11B Q12A Q12B Q81 Q82 Q83 Q101 Q102 Q103 Q201 Q202 Q203 Q301 Q302 Q303 Q304 Q305 Q306 •Q307 Q308 Q701 Q702 Q703 Q704 Q705 Q706 Q801 Q802 Q803 Q804 Q805 Q806 Q807 Q805 Q806 Q807 Q806 Q807 Q808 Q807 Q808 Q811 Q812 Q813 Q814 Q816	B-1-3 G-1-1-3 D-1-1-8 G-1-1-4 H-1-9 G-1-1-4 H-1-9 G-1-1-4 H-1-9 G-1-1-4 G-1-1-

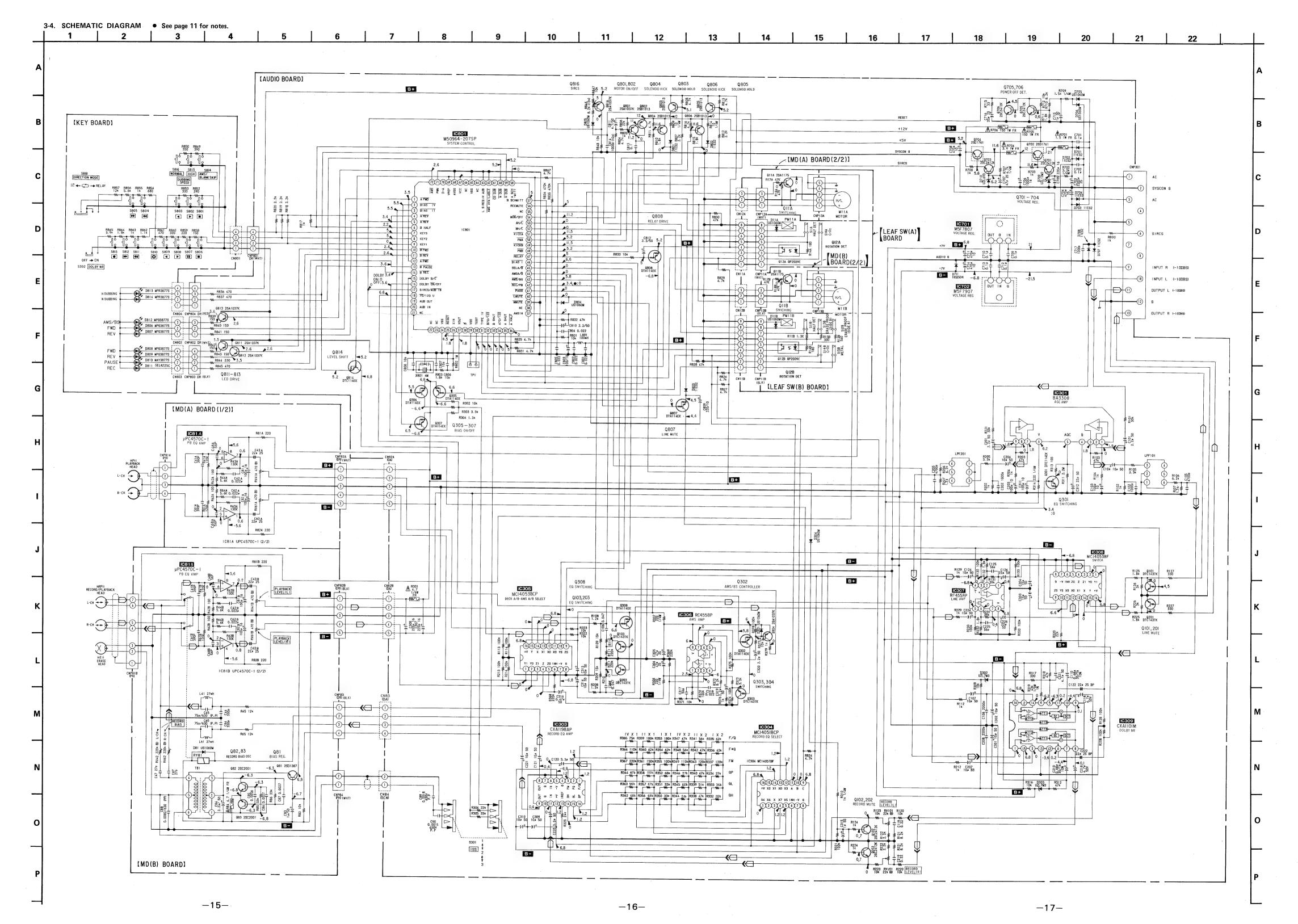
Note on Schematic Diagram:

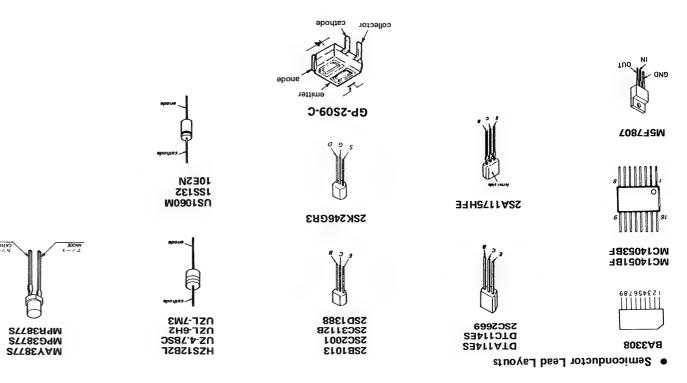
- All capacitors are in μ F unless otherwise noted. pF: $\mu\mu$ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\,W$ or less unless otherwise specified.
- fusible resistor.
- adjustment for repair.
- Power voltage is fed with supply from external power voltage jack.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark: REC
- (): PB
- Voltages are taken with a VOM (50 $k\Omega/V$). Voltage variations may be noted due to normal production tolerances.
- Signal path
- PB (DECK B)
- REC (DECK B)

Note: The components identified by mark 🐧 or dotted line with mark 🐧 are critical for safety.

Replace only with part number specified.







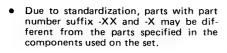
SECTION 4 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

(1) MAIN SECTION

No. Part No.



Color Indication of Appearance Parts (RED) ... KNOB, BALANCE (WHITE)

Cabinet's Color

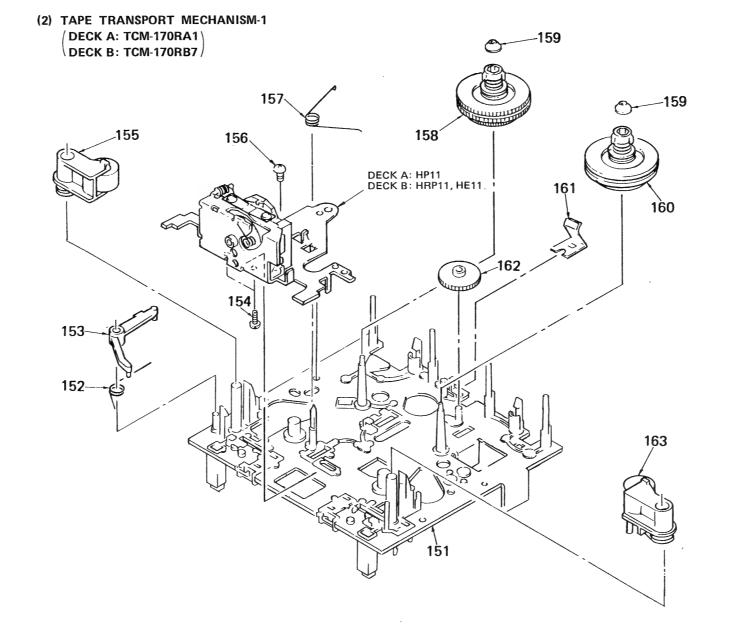
Parts Color

The components identified by mark A or dotted line with mark are critical for safety.

Replace only with part number

(including ▲A)

not supplied

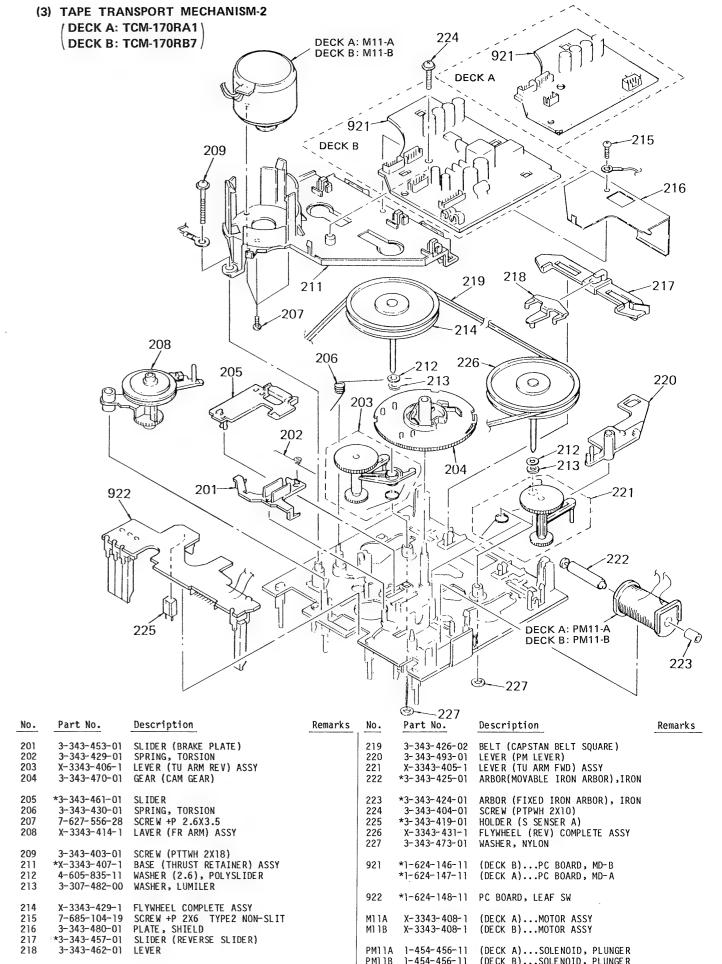


1	-					1		
6 7-621-255-15 SCREW +PTT 2X3 (S) 7 3-340-137-01 SPRING 8 3-346-364-01 SPRING (LOADING), TORSION 9 7-624-105-04 RETAINING, RING E-2.3 10 *3-340-137-01 HOLDER, CASSETTE 11 *3-340-150-01 HOLDER, CASSETTE 12 *3-340-123-01 SCREW +BYTT 2.6X4 (S) 13 7-621-773-86 SCREW +BYTT 3X5 (S) 155 7-621-773-86 SCREW +BYTT 2.6X4 (S) 156 7-621-773-86 SCREW +BYTT 2.6X4 (S) 157 3-343-401-01 SPRING, TORSION 27 7-685-647-79 SCREW +BYTT 3X10 TYPE2 N-S 28 *3-349-022-01 (US, AEP, UK)LABEL, MODEL NUMBER (AE/U) 28 *3-340-150-01 HOLDER, CASSETTE 29 7-685-870-01 SCREW +BYTT 3X5 (S) 12 *3-340-152-01 BUTTON (B) ASSY 13 7-621-773-86 SCREW +BYTT 2.6X4 (S) 13 3-349-054-01 KNOB (SLIDE) 13 7-621-773-86 SCREW +BYTT 2.6X4 (S) 14 3-558-708-21 USASETTE 29 7-685-870-01 SCREW +BYTT 3X5 (S) 29 7-685-870-01 SCREW +BYTT 3X5 (S) 29 7-685-870-01 SCREW +BYTT 3X5 (S) 20 7-685-870-01 SCREW +BYTT 3X5 (S) 21 3-340-152-1 BUTTON (B) ASSY 22 3-340-152-1 BUTTON (B) ASSY 23 340-152-1 BUTTON (B) ASSY 24 3-340-152-1 BUTTON (B) ASSY 25 4-930-355-31 CASE 26 *3-352-815-11 PANEL, BACK 27 7-685-647-79 SCREW +BYTT 3X5 (S) 28 *3-349-022-01 (US, AEP, UK)LABEL, MODEL NUMBER (AE/U) 29 7-685-870-01 SCREW +BYTT 3X5 (S) 30 7-685-870-01 SCREW +BYTT 3X5 (S) 31 3-340-152-1 BUTTON (B) ASSY 31 3-340-152-1 BUTTON (B) ASSY 32 43-01-152-1 BUTTON (B) ASSY 33 40-152-1 BUTTON (B) ASSY 34 340-152-1 BUTTON (B) ASSY 35 40-142-01 LEVER (LOCK) ASSY 36 40-142-01 LEVER (LOCK) ASSY 37 40-152-1 BUTTON (B) ASSY 38 40-152-1 BUTTON (B) ASSY 39 40-152-1 BUTTON (B) ASSY 39 40-152-1 BUTTON (B) ASSY 39 40-152-1 BUTTON (B) ASSY 30 40-152-1 BUTTON (B) ASSY 30 40-152-1 BUTTON (B) ASSY 31 3-340-152-1 BUTTON (B) ASSY 31 3-3540-152-1		2 X-3340-150-1 LID (A) ASSY, CASSETTE 3 X-3340-154-1 PANEL ASSY, FRONT	21 X-3332-464-1 GEAR (DAMPER) ASSY 22 *4-921-402-01 HEAT SINK 23 7-685-646-79 SCREW +BVTP 3X8 TYPE2 IT-3	152 153	3-343-477-01 SPRING, TORSION (EJECT SAFTY) *3-343-476-01 LEVER (EJECT SAFETY LEVER)	160 161	X-3343-401-1 TABEL 3-343-420-01 SPRING	ASSY, REEL G, LEAF
25 4-930-355-31 CASE 156 7-621-773-86 SCREW +BVTT 2.6X4 (S)			24 3-704-366-01 SCREW (CASE) (MBX8)		V 0040 400 3 15UFD (07U0U 15UFD DEU) 400V	163	X-3343-402-1 LEVER	(PINCH LEVER FWD) ASSY
8 3-346-364-01 SPRING (LOADING), TORSION 9 7-624-105-04 RETAINING, RING E-2.3 28 *3-349-022-01 (US, AEP, UK)LABEL, MODEL NUMBER (AE/U) 10 *3-346-334-01 SHAFT (HOLDER FITTING LEFT) 11 *3-340-150-01 HOLDER, CASSETTE 29 7-685-870-01 SCREW +BVTT 3X5 (S) 12 *3-340-123-01 RETAINER, CASSETTE 30 7-685-136-11 SCREW +BVTT 3X5 (S) 13 7-621-773-86 SCREW +BVTT 2.6X4 (S) 14 3-558-708-21 WASHER, STOPPER 15 *X-3332-465-1 LEVER (LOCK) ASSY 16 *3-340-142-01 LEVER (LOCK) ASSY 17 *X-3332-466-1 BRACKET (LEET) ASSY 18 *3-390-142-01 LEVER (LOCK) ASSY 19 *X-3340-163-1 BRACKET (LEET) ASSY 19 *X-3932-466-1 BRACKET (LEET) ASSY 19 *X-3932-466-1 BRACKET (LEET) ASSY 19 *X-390-142-00 LEVER (LOCK) ASSY 10 *X-390-142-00 LEVER (LOCK) ASSY 11 *X-3932-466-1 BRACKET (LEET) ASSY 12 *X-3940-122-01 (US, AEP, UK)LABEL, MODEL NUMBER (AE/U) 15 *X-3343-415-1 TABEL (REV) ASSY, REEL 16 *X-340-123-01 (US, AEP, UK)LABEL, MODEL NUMBER (AE/U) 16 *X-340-123-01 (US, AEP, UK)LABEL, MODEL NUMBER (AE/U) 17 *X-3340-150-01 (US, AEP, UK)LABEL, MODEL NUMBER (AE/U) 18 *X-3343-415-1 TABEL (REV) ASSY, REEL 18 *X-3343-415-1 TABEL (REV) ASSY, REEL 19 *X-3343-415-1 TABEL (REV) ASSY, REEL 29 *X-3340-120-1 (US, AEP, UK)LABEL, MODEL NUMBER (AE/U) 29 *X-340-123-01 (US, AEP, UK)LABEL, MODEL NUMBER (AE/U) 29 *X-340-123-01 (US		6 /-621-255-15 SCREW +P11 2X3 (S)				HP11	A-2108-129-A (DECK	A)CHASSIS ASSY, HEAD
28 *3-349-022-01 (US, AEP, UK)LABEL, MODEL NUMBER (AE/U) 10 *3-346-334-01 SHAFT (HOLDER FITTING LEFT)								B)CHASSIS ASSY, HEAD
*3-346-334-01 SHAFT (HOLDER FITTING LEFT) 11 *3-340-150-01 HOLDER, CASSETTE 29 7-685-870-01 SCREW +BVTT 3X5 (S) 12 *3-340-123-01 RETAINER, CASSETTE 31 3-349-054-01 KNOB (SLIDE) 13 7-621-773-86 SCREW +BVTT 2.6X4 (S) 14 3-558-708-21 WASHER, STOPPER 31 X-349-054-01 WOSHER, STOPPER 32 X-3340-152-1 BUTTON (A) ASSY 15 *X-3332-465-1 LEVER (LOCK) ASSY 16 *3-340-142-01 LEVER (EJECT) 17 *X-3332-466-1 BRACKET (LEFT) ASSY 18 *X-3332-466-1 BRACKET (LEFT) ASSY 19 *X-3332-466-1 BRACKET (LEFT) ASSY 11 *X-3332-466-1 BRACKET (LEFT) ASSY 11 *X-3332-466-1 BRACKET (LEFT) ASSY 11 *X-3332-466-1 BRACKET (LEFT) ASSY 12 *X-3340-132-1 (West Germany)LABEL, MODEL NUMBER (AE4) 29 7-685-870-01 SCREW +BVTT 3X5 (S) 30 7-685-136-11 SCREW +BVTT 2.X5 (S) 31 3-349-054-01 KNOB (SLIDE) 31 3-349-054-01 KNOB (SLIDE) 31 3-349-054-01 KNOB (SLIDE) 32 X-3340-152-1 BUTTON (B) ASSY 33 X-3340-152-1 BUTTON (A) ASSY 40 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -			27 /-000-04/-/9 SCREW +BYIP 3XIU IYPEZ N-S	158	X-3343-415-1 TABEL (REV) ASSY, REEL	HEII	J	
11 *3-340-150-01 HOLDER, CASSETTE 29 7-685-870-01 SCREW +BVTT 3X5 (S) 12 *3-340-123-01 RETAINER, CASSETTE 30 7-685-136-11 SCREW +PTP 2.6X12 TYPE2 N-S 13 7-621-773-86 SCREW +BVTT 2.6X4 (S) 32 X-3340-153-1 BUTTON (B) ASSY 14 3-558-708-21 WASHER, STOPPER 33 X-3340-152-1 BUTTON (B) ASSY 15 *X-3332-465-1 LEVER (LOCK) ASSY 901 *A-2006-098-A MOUNTED PCB, AUDIO 16 *3-340-142-01 LEVER (EJECT) 1C701 8-759-604-86 IC M5F7807 17 *X-3332-466-1 BRACKET (LEFT) ASSY 1C702 8-759-604-90 IC M5F7907	1		*3-349-031-01 (West Germany)LABEL, MODEL NUMBER (AE/U)			1		
31 3-349-054-01 KNOB (SLIDE) 32 X-3340-153-1 BUTTON (B) ASSY 33 X-3340-152-1 BUTTON (A) ASSY 34 X-3332-465-1 LEVER (LOCK) ASSY 35 X-3240-152-1 BUTTON (A) ASSY 36 X-3240-142-01 LEVER (EJECT) 37 X-2036-098-A WOUNTED PCB, AUDIO 38 X-340-142-01 LEVER (EJECT) 39 X-340-142-01 LEVER (EJECT) 30 X-340-152-1 BUTTON (A) ASSY 31 X-340-152-1 BUTTON (B) ASSY 32 X-3340-152-1 BUTTON (A) ASSY 33 X-3240-152-1 BUTTON (B) ASSY 34 X-301-02-02-02-02-02-02-02-02-02-02-02-02-02-	i		29 7-685-870-01 SCREW +BVTT 3X5 (S)					
13 7-621-773-86 SCREW +BVTT 2.6X4 (S) 14 3-558-708-21 WASHER, STOPPER 15 *X-3332-465-1 LEVER (LOCK) ASSY 16 *3-340-142-01 LEVER (EJECT) 17 *X-3332-466-1 BRACKET (LEFT) ASSY 18 -759-604-86 IC M5F7907 19 *X-3332-466-1 BRACKET (LEFT) ASSY 19 10 10 10 10 10 10 10 10 10 10 10 10 10	1	2 *3-340-123-01 RETAINER, CASSETTE						
14 3-558-708-21 WASHER, STOPPER 33 X-3340-152-1 BUTTON (A) ASSY 15 *X-3332-465-1 LEVER (LOCK) ASSY 901 *A-2006-098-A MOUNTED PCB, AUDIO 16 *3-340-142-01 LEVER (EJECT) 1C701 8-759-604-86 IC M5F7807 17 *X-3332-466-1 BRACKET (LEFT) ASSY 1C702 8-759-604-90 IC M5F7907	1	3 7-621-773-86 SCREW +BVTT 2.6X4 (S)						
16 *3-340-142-01 LEVER (EJECT)	1							
17 *X-3332-466-1 BRACKET (LEFT) ASSY IC702 8-759-604-90 IC M5F7907	1							
	1							
10 3-343-47-01 3FAIRG, IERSION	i		IC702 8-759-604-90 IC M5F7907					
	•	O J-0-10/-T-OI JERING, FERSION						

No. Part No.

Description

Remarks



AA

Remarks No. Part No. Description

not supplied

(•A)

Description

Remarks No. Part No.

Description

Remarks

PM11A 1-454-456-11 (DECK A)...SOLENOID, PLUNGER PM11B 1-454-456-11 (DECK B)...SOLENOID, PLUNGER

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF: μ F, PF: $\mu\mu$ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

• MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ , for example: UA...: μ A..., UPA...: μ PA..., UPC...: μ PD...

The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description			1	Ref.No.	Part No.	Description			
901	*A-2006-098-A	MOUNTED PCB,	AUDIO			C105 C106	1-163-017-00	CERAMIC CHIP	0.0047MF 0.047MF	10% 5%	50 V 50 V
921	*1-624-147-11 *1-624-146-11	(DECK A)P (DECK B)P				C1 07	1-123-875-11	ELECT	1 OMF	20%	50V
922	*1-624-148-11	PC BOARD, LE				C108 C110	1-164-161-11 1-131-587-11	CERAMIC CHIP TANTALUM	0.68MF	10% 10%	50V 35V
C41A	1-162-289-31	CERAMIC	3 90PF	10%	50 V	C118	1-124-927-11	ELECT	4.7MF	20%	50 V
C41B	1-162-289-31	CERAMIC	390PF	10%	50V	C119 C120	1-136-169-00 1-124-927-11	FILM ELECT	0.22MF 4.7MF	5% 20%	50V 50V
C42 A C42 B	1-136-157-00 1-136-157-00	FILM FILM	0.022MF 0.022MF	5% 5%	50V 50V	C121	1-123-875-11	ELECT	1 OMF	20%	507
C43 A C43 B	1-124-282-00	ELECT ELECT	22MF 22MF	20% 20%	25V 25V	C122 C124 C125	1-124-282-00 1-123-875-11 1-163-111-00	ELECT ELECT CERAMIC CHIP	22MF 1 OMF 56PF	20% 20% 5%	25V 50V 50V
C44	1-162-288-31	CERAMIC	330PF	10%	50V	C126	1-126-233-11	ELECT	22MF	20%	50V
C45 C47	1-136-273-91 1-162-209-31	FILM CERAMIC	75PF 27PF	5% 5%	63 OV 50V	C2 01 C2 02	1-124-925-11 1-163-009-11	ELECT CERAMIC CHIP	2.2MF	20%	50V 50V
C48A C48B	1-162-217-31	CERAMIC CERAMIC	56PF 56PF	5% 5%	50V 50V	C2 03 C2 04	1-124-443-00	ELECT ELECT	1 00MF 1 0MF	20%	1 0 V 5 0 V
C61A	1-162-289-31	CERAMIC	390PF	10%	50V	C2 05	1-163-017-00	CERAMIC CHIP		10%	50V
C61B	1-162-289-31	CERAMIC	3 90PF	10%	50 V	C206 C207	1-136-161-00 1-123-875-11	FILM ELECT	0.047MF 10MF	5% 20%	50V 50V
C62A C62B	1-136-157-00	FILM FILM	0.022MF 0.022MF	5% 5%	50V 50V	C208	1-164-161-11	CERAMIC CHIP		10%	507
C63A C63B	1-124-282-00	ELECT	22MF 22MF	20% 20%	25V 25V	C210 C218 C219	1-131-587-11 1-124-927-11 1-136-169-00	TANTALUM ELECT FILM	0.68MF 4.7MF 0.22MF	10% 20% 5%	35V 50V 50V
C64 C65	1162-288-31 1136-273-91	CERAMIC FILM	330PF 75PF	10% 5%	50V 63 0V	C220 C221	1-124-927-11 1-123-875-11	ELECT	4.7MF 10MF	20% 20%	50V 50V
C67	1-162-209-31	CERAMIC	27PF	5%	50 V	C222	1-124-282-00	ELECT	22MF	20%	25V
C68A C68B	1-162-217-31 1-162-217-31	CERAMIC CERAMIC	56PF 56PF	5% 5%	50V 50V	C224 C225 C226	1-123-875-11 1-163-111-00 1-126-233-11	ELECT CERAMIC CHIP ELECT	1 OMF 56PF 22MF	20% 5% 20%	50V 50V 50V
C81 A	1-126-101-11	ELECT	100MF	20%	167				1 OMF	20%	50 v
C81B	1-126-101-11	ELECT	100MF	20%	16V	C3 02	1-123-875-11 1-123-875-11	ELECT	1 OMF	20%	50V
C82 A C82 B	1-126-101-11	ELECT ELECT	1 00MF 1 00MF	20% 20%	16V 16V	C3 03	1-123-875-11	ELECT	1 OMF	20%	50V
C83	1-124-499-11	ELECT	1MF	20%	50V	C3 04 C3 05	1-123-875-11 1-124-477-11	ELECT ELECT	1 OMF 4 7MF	20% 20%	50V 25V
C84 C85	1-124-925-11 1-130-480-00	ELECT MYLAR	2.2MF 0.0056MF	20% 5%	50V 50V	C3 06	1-124-477-11	ELECT	47MF	20%	25V
C86	1-130-476-00	MYLAR	0.0027MF	5%	50V	ೞ 07 €308	1-124-120-11	ELECT ELECT	22 OMF 22 OMF	20% 20%	16V 16V
C87	1-130-476-00	MYLAR	0.0027MF	5%	50V	C309	1-123-875-11	ELECT	1 OMF	20%	50 V
C88	1-136-562-11	FILM	0.0082MF	5%	63 OV	C310	1-123-875-11	ELECT	1 OMF	20%	500
C89 C90	1-136-554-11 1-136-553-11	FILM FILM	0.0018MF 0.0015MF	5% 5%	63 OV 63 OV	C311 C312	1-124-443-00 1-126-233-11	ELECT ELECT	100MF 22MF	20% 20%	1 0 V 5 0 V
C1 01	1-124-925-11	ELECT	2.2MF	20%	50 V	C313	1-123-875-11	ELECT	1 OMF	20%	50V
C1 02 C1 03	1-163-009-11	CERAMIC CHIP	0.001MF 100MF	10%	507	C314 C315	1-123-875-11	ELECT ELECT	1 OMF 1 MF	20%	50V 50V
C1 04	1-123-875-11	ELECT	1 OMF	20% 20%	10V 50V	ω15	1-167-433 - 11	CELOI	1711	200	50 Y

Ref.No.	Part No.	Description	_		ı	Ref.No.	Part No.	Description
ස16 0317 ස18	1-124-902-00 1-163-111-00 1-163-037-11			20% 5% 10%	50V 50V 25V	DIIA DIIB	8-71 9-1 07-94 8-71 9-1 07-94	
C319 C320 C321	1-124-925-11 1-124-925-11 1-124-927-11	ELECT ELECT ELECT	2.2MF 2.2MF 4.7MF	20% 20% 20%	50V 50V 50V	D81 D3 01 D3 02	8-719-107-94 8-719-000-26 8-719-000-90	DIODE 1SS132 DIODE US1060M ZENER DIODE UZL-7M3
C701 C702 C703	1-164-159-11	CERAMIC CERAMIC ELECT	0.1MF 0.1MF 2200MF	20%	50V 50V 25V	D3 03 D3 04 D701	8-719-000-90 8-719-000-26 8-719-200-02	ZENER DIODE UZL-7M3 DIODE US1060M DIODE 10E2
C704 C705 C706		ELECT ELECT	470MF 220MF 1000MF	20% 20% 20%	25V 16V 16V	D702 D703 D704	8-71 9-2 00-02 8-71 9-2 00-02 8-71 9-2 00-02	DIODE 10E2
C707 C708 C709	1-124-477-11	ELECT	47MF 470MF 0.1MF	20%	25V 10V 50V	D705 D706 D707	8-71 9-000-2 6 8-71 9-200-02	
C710 C711	1-164-159-11 1-124-472-11	CERAMIC ELECT	0.1MF 470MF	20%	50V 10V	D708 D709 D710	8-719-200-02 8-719-933-77 8-719-000-69	ZENER DIODE HZS12B2L ZENER DIODE UZL-6H2
C712 C713 C714	1-124-472-11	CERAMIC CERAMIC ELECT	0.1MF 0.1MF 470MF	20%	50V 50V 10V	D711 D801 D802	1-807-913-21 8-719-200-02 8-719-200-02	DIODE 10E2
C715 C716 C717	1-124-499-11 1-124-482-11 1-163-009-11	ELECT	1MF 33MF 0.001MF	20% 20% 10%	50V 25V 50V	D803 D804 D805		DIODE 10E2 DIODE US1060M DIODE US1060M
C801 C802 C803		CERAMIC CHIP CERAMIC CHIP ELECT		10% 10% 20%	25V 25V 10V	D806 D807 D808	8-71 9-942-1 5 8-71 9-942-1 5 8-71 9-942-1 5	
C804 C805 C806	1-163-037-11 1-163-037-11 1-163-093-00	CERAMIC CHIP	0.022MF	10% 10% 5%	25V 25V 50V	D809 D810 D811	8-719-942-15 8-719-942-14 8-719-942-17	LED MAY3877S
C807 C808	1-163-093-00	CERAMIC CHIP	1 OPF	5% 5%	50 V	D812 D813 D814	8-719-942-15 8-719-942-17 8-719-942-17	LED MPR3877S
C809	1-126-176-11 1-124-925-11	ELECT ELECT	220MF 2.2MF	20% 20%	10V 50V	HP11		(DECK A)CHASSIS ASSY, HEAD
C811 C812	1-124-927-11 1-124-925-11	ELECT ELECT	4.7MF 2.2MF	20% 20%	50V 50V	HRP11 HE11	A-2108-130-A	(DECK B)CHASSIS ASSY, HEAD
C813 C814	1-164-159-11 1-163-009-11 (*1-564-501-11	CERAMIC CHIP		10%	50V 50V	IC81B		IC UPC4570C-1 IC UPC4570C-1 IC BA3308
CNP11B	*1-506-615-11 *1-564-337-00	PIN, CONNECT	OR 9P OR 3P				8-752-033-61 8-759-009-05 8-759-009-07	
CNP13A	1*1-564-337-61 1*1-564-707-11 1*1-564-707-11	PIN, CONNECTOR PIN, C	OR (SMALL TY	'PE) 5P 'PE) 5P		IC307	8-759-945-58 8-759-945-58 8-759-009-07	IC RC4558P
CNP81B	*1 -564-706-1 1 *1 -564-709-1 1	PIN, CONNECTO	OR (SMALL TY OR (SMALL TY	PE) 4P PE) 7P		IC3 09 IC701	8-752-032-05 8-759-604-86	IC CXAllOlM IC M5F7807
	1 -564-339-00 3 - 1 -564-339-61	PIN, CONNECT				IC702 IC801	8-759-604-90 8-759-632-53	IC M5F7907 IC M50964-212FP
CNP84	*1-564-338-61 *1-564-704-11	PIN, CONNECT	OR (SMALL TY	PE) 2P		L41 L61 L801	1-410-780-11 1-410-780-11 1-408-080-00	INDUCTOR 27MMH INDUCTOR 27MMH INDUCTOR 100UH
CNP801	*1 -565-291-11 *1 -564-338-00 *1 -564-337-00	SOCKET, CONNECTO PIN, CONNECTO PIN, CONNECTO	OR 4P				1-236-087-11 1-236-087-11	FILTER, LOW PASS FILTER, LOW PASS
	*1-564-338-61 *1-564-338-71	PIN, CONNECTO PIN, CONNECTO				M11A M11B	X-3343-408-1 X-3343-408-1	(DECK A)MOTOR ASSY (DECK B)MOTOR ASSY

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description			
PMIIA PMIIB	1-454-456-11 1-454-456-11	(DECK A)SOLENOID, PLUNGER (DECK B)SOLENOID, PLUNGER	R43A R43B	1-247-882-11 1-247-882-11	CARBON CARBON	130K 130K		1/4W 1/4W
Q11A Q11B	8-729-119-76 8-729-119-76	TRANSISTOR 2SAll75-HFE TRANSISTOR 2SAll75-HFE	R44A R44B	1-249-426-11 1-249-426-11	CARBON CARBON	5.6K 5.6K	5% 5%	1/4W 1/4W
Q12A	8-719-939-23	PHOTO TRANSISTOR GP2 SO9-C	R45	1-249-430-11	CARBON	12K	5%	1/4W
Q12B Q81	8-719-939-23 8-729-111-29	PHOTO TRANSISTOR GP2SO9-C TRANSISTOR 2SD1388	R61A R61B	1-247-881-00 1-247-881-00	CARBON CARBON	120K 120K	5% 5%	1/4W 1/4W
082 083	8-729-100-13 8-729-100-13	TRANSISTOR 2SC2001 TRANSISTOR 2SC2001	R62A R62B	1-249-405-11 1-249-405-11	CARBON CARBON	100 100	5% 5%	1/4W 1/4W
Q101 Q102 Q103	8-72 9-900-98 8-72 9-1 03-1 6 8-72 9-900-98	TRANSISTOR DTC143TK TRANSISTOR 2SC1622A TRANSISTOR DTC143TK	R63A R63B	1-247-882-11 1-247-882-11	CARBON CARBON	130K 130K	5% 5%	1/4W 1/4W
Q2 01 Q2 02	8-729-900-98 8-729-103-16	TRANSISTOR DTC143TK TRANSISTOR 2SC1622A	R64A R64B	1-249-426-11 1-249-426-11	CARBON CARBON	5.6K 5.6K	5% 5%	1/4W 1/4W
02 03	8-729-900-98	TRANSISTOR DTC143TK	R65	1-249-430-11	CARBON	12K	5%	1/4W
Q3 01 Q3 02 Q3 03	8-729-900-53 8-729-901-04 8-729-900-98	TRANSISTOR DTC114EK TRANSISTOR DTA114EK TRANSISTOR DTC143TK	R81 A R81 B	1-249-409-11 1-249-409-11	CARBON CARBON	220 220	5% 5%	1/4W 1/4W
Q3 04 Q3 05	8-729-100-76 8-729-901-04	TRANSISTOR 2SA812-M6 TRANSISTOR DTA114EK	R82 A R82 B	1-249-409-11 1-249-409-11	CARBON CARBON	220 220	5% 5%	1/4W 1/4W
Q306 Q307 Q308	8-729-901-04 8-729-901-04 8-729-901-04	TRANSISTOR DTAll4EK TRANSISTOR DTAll4EK TRANSISTOR DTAll4EK	R83 R84 <u>∕</u> 1 R85	1-249-429-11 \(\).1-212-849-00 1-249-435-11	CARBON FUSIBLE CARBON	10K 4.7 33K	5% 5% 5%	1/4W 1/4W F 1/4W
Q701 Q702	8-729-103-16 8-729-904-27	TRANSISTOR 2SC1622A TRANSISTOR 2SD1761-E	R86 R101 R102	1-249-435-11 1-216-084-00 1-216-049-00	CARBON METAL GLAZE METAL GLAZE	33K 30K 1K	5% 5% 5%	1/4W 1/10W 1/10W
Q703 Q704	8-729-103-16 8-729-904-27	TRANSISTOR 2SC1622A TRANSISTOR 2SD1761-E	R1 03 R1 04	1-216-089-00	METAL GLAZE METAL GLAZE	47K 1K	5% 5%	1/10W 1/10W
0705 0706 0801	8-729-103-16 8-729-103-16 8-729-100-76	TRANSISTOR 2SC1622A TRANSISTOR 2SC1622A TRANSISTOR 2SA812-M6	R105	1-216-061-00	METAL GLAZE	3.3K	5%	1/1 OW
Q802 Q803	8-72 9-801 -83 8-72 9-801 -83	TRANSISTOR 2SB1013 TRANSISTOR 2SB1013	R106 R107 R108	1-216-068-00 1-216-043-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE	6.2K 560 1.2K	5% 5% 5%	1/10W 1/10W 1/10W
Q804 Q805 Q806	8-729-801-83 8-729-801-83 8-729-801-83	TRANSISTOR 2SB1013 TRANSISTOR 2SB1013 TRANSISTOR 2SB1013	R109 R110 R111	1-216-077-00 1-216-055-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 1.8K 220K	5% 5% 5%	1/10W 1/10W 1/10W
Q807 Q808	8-729-901-04 8-729-901-04		R112 R113 R114	1-216-049-00 1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 0 0 K 1 0 0 K	5% 5% 5%	1/10W 1/10W 1/10W
Q811 Q812	8-729-100-76 8-729-100-76	TRANSISTOR 2SA812-M6 TRANSISTOR 2SA812-M6	R1-20	1-216-073-00	METAL GLAZE	1 OK	5%	1/1 OW
Q813 Q814 Q816	8-72 9-1 00-76 8-72 9-900-53 8-72 9-1 00-76	TRANSISTOR 2SA812-M6 TRANSISTOR DTC114EK TRANSISTOR 2SA812-M6	R121 R122	1-216-071-00 1-216-057-00	METAL GLAZE METAL GLAZE	8.2K 2.2K		1/10W 1/10W
R11B R12B	1-247-834-11 1-249-414-11	CARBON 1.3K 5% 1/4W CARBON 560 5% 1/4W	R123 R124 R125	1-216-073-00 1-216-049-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 1.8K	5% 5% 5%	1/10W 1/10W 1/10W
R13B R14A R14B	1-247-818-11 1-249-408-11 1-249-408-11	CARBON 300 5% 1/4W CARBON 180 5% 1/4W CARBON 180 5% 1/4W	R126 R127 R128	1-216-060-00 1-216-037-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	3K 330 100K	5% 5% 5%	1/10W 1/10W 1/10W
R1 7A R1 7B	1-249-437-11	CARBON 47K 5% 1/4W CARBON 47K 5% 1/4W	R129 R130	1-216-049-00 1-216-097-00	METAL GLAZE METAL GLAZE	1 K 1 00 K	5% 5%	1/10W 1/10W
R18A R18B	1-249-437-11 1-249-437-11	CARBON 47K 5% 1/4W CARBON 47K 5% 1/4W	R131 R132	1-216-748-11	METAL GLAZE METAL GLAZE	39K 1.8K	5% 5%	1/10W 1/10W
R41A R41B	1-247-881-00	•	R133 R201	1-216-097-00 1-216-084-00	METAL GLAZE METAL GLAZE	100K 30K	5% 5%	1/10W 1/10W
R42 A R42 B	1-249-405-11	CARBON 100 5% 1/4W CARBON 100 5% 1/4W	R2 02 R2 03 R2 04	1-216-049-00 1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 47 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W

Note: The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety. Replace only with part number specified.

R307 1-249-409-11 CARBON 220 5% 1/4W R372 1-216-071-00 METAL GLAZE 8.2K 58 R308 1-249-409-11 CARBON 220 5% 1/4W R373 1-216-061-00 METAL GLAZE 3.3K 58 R309 1-216-073-00 METAL GLAZE 10K 5% 1/10W R374 1-216-097-00 METAL GLAZE 10OK 58 R310 1-249-417-11 CARBON 1K 5% 1/4W R375 1-216-097-00 METAL GLAZE 10OK 58 R311 1-216-129-00 METAL GLAZE 2.2M 5% 1/10W R376 1-216-049-00 METAL GLAZE 1K 58 R312 1-249-437-11 CARBON 47K 5% 1/4W R377 1-216-073-00 METAL GLAZE 10K 58 R313 1-216-025-00 METAL GLAZE 100 5% 1/10W R378 1-216-097-00 METAL GLAZE 10K 58 R314 1-249-409-11 CARBON 220 5% 1/4W R379 1-216-049-00 METAL GLAZE 1K 58	
R206 -216-068-00 METAL GLAZE 52K 5% 1/10W R343 1-216-099-00 METAL GLAZE 56K 58 1/10W R344 1-216-093-00 METAL GLAZE 56K 58 58 1/10W R345 1-216-093-00 METAL GLAZE 56K 58 1/10W R346 1-216-093-00 METAL GLAZE 68K 68209 1-216-0077-00 METAL GLAZE 1.8K 5% 1/10W R346 1-216-093-00 METAL GLAZE 47K 68209 1-216-009-00 METAL GLAZE 1.8K 5% 1/10W R346 1-216-093-00 METAL GLAZE 47K 68211 1-216-049-00 METAL GLAZE 1.8K 5% 1/10W R349 1-216-099-00 METAL GLAZE 47K 68212 1-216-049-00 METAL GLAZE 1.8K 5% 1/10W R349 1-216-099-00 METAL GLAZE 1.8K 5% 1/10W R350 1-216-099-00 METAL GLAZE 1.8K 5% 1/10W R350 1-216-099-00 METAL GLAZE 33K 6822 1-216-079-00 METAL GLAZE 1.0K 5% 1/10W R350 1-216-099-00 METAL GLAZE 33K 6822 1-216-079-00 METAL GLAZE 1.0K 5% 1/10W R350 1-216-099-00 METAL GLAZE 33K 6822 1-216-079-00 METAL GLAZE 1.0K 5% 1/10W R351 1-216-099-00 METAL GLAZE 33K 6822 1-216-079-00 METAL GLAZE 1.0K 5% 1/10W R351 1-216-099-00 METAL GLAZE 68K 6	
R209 1-216-077-00 METAL GLAZE 15K 5% 1/10W R347 1-216-089-00 METAL GLAZE 30K 5% 1/10W R347 1-216-099-00 METAL GLAZE 47K 5% 1/10W R349 1-216-099-00 METAL GLAZE 47K 5% 1/10W R349 1-216-099-00 METAL GLAZE 110K 5% 1/10W R349 1-216-099-00 METAL GLAZE 110K 5% 1/10W R350 1-216-089-00 METAL GLAZE 110K 5% 1/10W R350 1-216-089-00 METAL GLAZE 110K 5% 1/10W R350 1-216-089-00 METAL GLAZE 130K 5% 1/10W R350 1-216-089-00 METAL GLAZE 130K 5% 1/10W R350 1-216-089-00 METAL GLAZE 130K 5% 1/10W R351 1-216-099-00 METAL GLAZE 130K 5% 1/10W R351 1-216-099-00 METAL GLAZE 180K 5% 1/10W R353 1-216-093-00 METAL GLAZE 180K 5% 1/10W R353 1-216-093-00 METAL GLAZE 180K 5% 1/10W R353 1-216-093-00 METAL GLAZE 180K 5% 1/10W R354 1-216-093-00 METAL GLAZE 180K 5% 1/10W R355 1-216-093-00 METAL GLAZE 180K 5% 1/10W R356 1-216-093-00 METAL GLAZE 180K 5% 1/10W R356 1-216-093-00 METAL GLAZE 180K 5% 1/10W R356 1-216-093-00 METAL GLAZE 62K 5% 1/10W R356 1-216-093-00 METAL GLAZE 62K 5% 1/10W R356 1-216-093-00 METAL GLAZE 180K 5% 1/10W R356 1-216-093-00 METAL GLAZE 180K 5% 1/10W R357 1-216-093-00 METAL GLAZE 180K 5% 1/10W R358 1-216-093-00 METAL GLAZE 180K 5% 1/10W R359 1-216-1090-00 METAL GLAZE 180K 5% 1/10W R360 1-216-093-00 METAL GLAZE 180K 5% 1/10W R360 1-216-093-00 METAL GLAZE 180K 5% 1/10W R361 1-216-103-00 METAL GLAZE 180K 5% 1/10W R361 1-216-093-00 METAL GLAZE	3 1/10W
R212	1/10W
R220 1-216-073-00 METAL GLAZE 8.2K 5% 1/10W R353 1-216-103-00 METAL GLAZE 68K 5 8 1/10W R353 1-216-103-00 METAL GLAZE 62K 5 8 1/10W R353 1-216-097-00 METAL GLAZE 180K 5 8 1/10W R353 1-216-097-00 METAL GLAZE 180K 5 8 1/10W R353 1-216-097-00 METAL GLAZE 180K 5 8 1/10W R353 1-216-097-00 METAL GLAZE 10K 5% 1/10W R355 1-216-097-00 METAL GLAZE 62K 5 8 1/10W R356 1-216-097-00 METAL GLAZE 62K 5 8 1/10W R358 1-216-097-00 METAL GLAZE 10K 5% 1/10W R360 1-216-090-00 METAL GLAZE 66K 5 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1/10W
R223 1-216-073-00 METAL GLAZE 10K 5% 1/10W R355 1-216-097-00 METAL GLAZE 10K 5% 1/10W R356 1-216-097-00 METAL GLAZE 10K 5% 1/10W R356 1-216-097-00 METAL GLAZE 62K 5% 1/10W R356 1-216-097-00 METAL GLAZE 62K 5% 1/10W R356 1-216-097-00 METAL GLAZE 30K 5% 1/10W R358 1-216-097-00 METAL GLAZE 10K 5% 1/10W R359 1-216-102-00 METAL GLAZE 10K 5% 1/10W R359 1-216-102-00 METAL GLAZE 10K 5% 1/10W R369 1-216-097-00 METAL GLAZE 10K 5% 1/10W R361 1-216-105-00 METAL GLAZE 68K 5% 1/10W R361 1-216-097-00 METAL GLAZE 68K 5% 1/10W R361 1-216-097-00 METAL GLAZE 62K 5% 1/10W R362 1-216-097-00 METAL GLAZE 62K 5% 1/10W R362 1-216-097-00 METAL GLAZE 62K 5% 1/10W R363 1-216-097-00 METAL GLAZE 51K 5% 1/10W R363 1-216-090-00 METAL GLAZE 51K 5% 1/10W R363 1-216-090-00 METAL GLAZE 39K 5% 1/10W R365 1-216-090-00 METAL GLAZE 39K 5% 1/10W R365 1-216-090-00 METAL GLAZE 51K 5% 1/10W R365 1-216-090-00 METAL GLAZE 51K 5% 1/10W R365 1-216-090-00 METAL GLAZE 20K 5% 1/10W R368 1-216-105-00 METAL GLAZE 20K 5% 1/10W R368 1-216-105-00 METAL GLAZE 20K 5% 1/10W R369 1-216-090-00 METAL GLAZE 10K 5% 1/10W R369 1-216-090-00 METAL GLAZE 10K 5% 1/10W R370 1-216-090-00 METAL GLAZE 10K 5% 1/10W R371 1-216-000-00 METAL G	1/10W
R226 1-216-060-00 METAL GLAZE 3K 5% 1/10W R359 1-216-097-00 METAL GLAZE 100K 5 R227 1-216-037-00 METAL GLAZE 330 5% 1/10W R359 1-216-102-00 METAL GLAZE 166K 5 R229 1-216-049-00 METAL GLAZE 100K 5% 1/10W R360 1-216-093-00 METAL GLAZE 220K 5 R230 1-216-097-00 METAL GLAZE 100K 5% 1/10W R361 1-216-105-00 METAL GLAZE 220K 5% 1/10W R362 1-216-092-00 METAL GLAZE 6ZK 5 R231 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W R363 1-216-092-00 METAL GLAZE 39K R233 1-216-097-00 METAL GLAZE 100K 5% 1/10W R364 1-216-094-00 METAL GLAZE 39K R233 1-216-097-00 METAL GLAZE 100K 5% 1/10W R365 1-216-094-00 METAL GLAZE 39K R233 1-216-097-00 METAL GLAZE 100K 5% 1/10W R365 1-216-094-00 METAL GLAZE 220K 5% R303 1-216-061-00 METAL GLAZE 33K 5% 1/10W R367 1-216-105-00 METAL GLAZE 220K 5% R303 1-216-061-00 METAL GLAZE 33K 5% 1/10W R368 1-216-105-00 METAL GLAZE 220K 5% R304 1-216-085-00 METAL GLAZE 33K 5% 1/10W R368 1-216-105-00 METAL GLAZE 220K 5% R306 1-216-081-00 METAL GLAZE 33K 5% 1/10W R368 1-216-105-00 METAL GLAZE 10K 5% R306 1-216-081-00 METAL GLAZE 220K 5% R306 1-216-081-00 METAL GLAZE 220K 5% R306 1-216-081-00 METAL GLAZE 22K 5% 1/10W R370 1-216-070-00 METAL GLAZE 10K 5% R308 1-216-081-00 METAL GLAZE 10K 5% 1/10W R371 1-216-070-00 METAL GLAZE 10K 5% R308 1-216-081-00 METAL GLAZE 10K 5% 1/10W R373 1-216-097-00 METAL GLAZE 10K 5% R308 1-216-097-00 METAL GLAZE 10K 5% 1/10W R371 1-216-097-00 METAL GLAZE 10K 5% 1/10W R376 1-216-097-00 METAL GLAZE 10K 5% 1/	6 1/10W
R229 1-216-049-00 METAL GLAZE 1K 5% 1/10W R361 1-216-092-00 METAL GLAZE 220K 5 8 1/10W R362 1-216-092-00 METAL GLAZE 62K 5 1/10W R362 1-216-092-00 METAL GLAZE 62K 5 1/10W R363 1-216-090-00 METAL GLAZE 51K 5 1/10W R364 1-216-094-00 METAL GLAZE 39K 5% 1/10W R365 1-216-094-00 METAL GLAZE 10K 5% 1/10W R367 1-216-105-00 METAL GLAZE 220K 5% 1/10W R368 1-216-105-00 METAL GLAZE 220K 5% 1/10W R368 1-216-105-00 METAL GLAZE 220K 5% 1/10W R368 1-216-094-00 METAL GLAZE 220K 5% 1/10W R369 1-216-095-00 METAL GLAZE 220K 5% 1/10W R370 1-216-097-00 METAL GLAZE 100K 5% 1/10W R370 1-216-097-00 METAL GLAZE 10OK 5% 1/10W R371 1-216-097-00 METAL GLAZE 10K 5% 1/10W R371 1-216-073-00 ME	6 1/1 OW
R232 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W R364 1-216-094-00 METAL GLAZE 39K 8 8 1-216-097-00 METAL GLAZE 100K 5% 1/10W R365 1-216-094-00 METAL GLAZE 75K 8 1/10W R365 1-216-094-00 METAL GLAZE 110K 8 1/10W R367 1-216-105-00 METAL GLAZE 110K 8 1/10W R367 1-216-105-00 METAL GLAZE 220K 8 1/10W R368 1-216-105-00 METAL GLAZE 220K 8 1/10W R368 1-216-105-00 METAL GLAZE 220K 8 1/10W R368 1-216-105-00 METAL GLAZE 220K 8 1/10W R370 1-216-097-00 METAL GLAZE 100K 8 1/10W R370 1-216-097-00 METAL GLAZE 100K 8 1/10W R370 1-216-097-00 METAL GLAZE 100K 8 1/10W R371 1-216-073-00 METAL GLAZE 10K 8 1/10W R371 1-216-073-00 METAL GLAZE 10K 8 1/10W R373 1-216-061-00 METAL GLAZE 10K 8 1/10W R374 1-216-097-00 METAL GLAZE 10K 8 1/10W R375 1-216-097-00 METAL GLAZE 10K 8 1/10W R376 1-216-097-00 METAL GLAZE 10K 8 1/10W R377 1-216-097-00 METAL GLAZE 10K 8 1/10W R379 1-216-097-00 METAL GL	6 1/10W
R302 1-216-073-00 METAL GLAZE 10K 5% 1/10W R367 1-216-105-00 METAL GLAZE 220K 58 1/10W R368 1-216-105-00 METAL GLAZE 220K 58 1/10W R368 1-216-105-00 METAL GLAZE 220K 58 1/10W R368 1-216-105-00 METAL GLAZE 220K 58 1/10W R370 1-216-097-00 METAL GLAZE 100K 58 1/10W R370 1-216-097-00 METAL GLAZE 10K 58 1/10W R371 1-216-073-00 METAL GLAZE 10K 58 1/10W R371 1-216-073-00 METAL GLAZE 10K 58 1/10W R371 1-216-073-00 METAL GLAZE 10K 58 1/10W R373 1-216-061-00 METAL GLAZE 10K 58 1/10W R373 1-216-061-00 METAL GLAZE 3.3K 58 1/10W R373 1-216-061-00 METAL GLAZE 3.3K 58 1/10W R374 1-216-097-00 METAL GLAZE 10K 58 1/10W R376 1-216-049-00 METAL GLAZE 10K 58 1/10W R376 1-216-049-00 METAL GLAZE 10K 58 1/10W R377 1-216-073-00 METAL GLAZE 10K 58 1/10W R378 1-216-097-00 METAL GLAZE 10K 58 1/10W R379 1-216-049-00	6 1/1 OW
R305 1-216-085-00 METAL GLAZE 33K 5% 1/10W R370 1-216-097-00 METAL GLAZE 100K 58 1/216-081-00 METAL GLAZE 22K 5% 1/10W R371 1-216-073-00 METAL GLAZE 10K 58 1/249-409-11 CARBON 220 5% 1/4W R372 1-216-071-00 METAL GLAZE 3.3K 58 1-249-409-11 CARBON 220 5% 1/4W R373 1-216-061-00 METAL GLAZE 3.3K 58 1/10W R374 1-216-097-00 METAL GLAZE 100K 58 1/10W R376 1-216-049-00 METAL GLAZE 100K 58 1/10W R376 1-216-049-00 METAL GLAZE 10K 58 1/10W R377 1-216-073-00 METAL GLAZE 10K 58 1/10W R378 1-216-097-00 METAL GLAZE 10K 58 1/10W R379 1-216-097-00 METAL GLAZE 10K 58 1/10W R379 1-216-097-00 METAL GLAZE 10K 58 1/10W R379 1-216-099-00 M	6 1/10W
R308 1-249-409-11 CARBON 220 5% 1/4W R373 1-216-061-00 METAL GLAZE 3.3K 5 R309 1-216-073-00 METAL GLAZE 10K 5% 1/10W R374 1-216-097-00 METAL GLAZE 10OK 5 R310 1-249-417-11 CARBON 1K 5% 1/4W R375 1-216-097-00 METAL GLAZE 10OK 5 R311 1-216-129-00 METAL GLAZE 2.2M 5% 1/10W R376 1-216-049-00 METAL GLAZE 1K 5 R312 1-249-437-11 CARBON 47K 5% 1/4W R377 1-216-073-00 METAL GLAZE 10K 5 R313 1-216-025-00 METAL GLAZE 10OK 5 R314 1-249-409-11 CARBON 220 5% 1/4W R379 1-216-049-00 METAL GLAZE 1K 5 R314 1-249-409-11 CARBON 220 5% 1/4W R379 1-216-049-00 METAL GLAZE 1K 5	
R311 1-216-129-00 METAL GLAZE 2.2M 5% 1/10W R376 1-216-049-00 METAL GLAZE 1K 58 1/4W R377 1-216-073-00 METAL GLAZE 1OK 58 1/4W R378 1-216-073-00 METAL GLAZE 1OK 58 1/4W R378 1-216-097-00 METAL GLAZE 1OK 58 1/4W R379 1-216-049-00 METAL GLAZE 1K 58 1/4W R379 1-216-049-00 METAL GLAZE 1	6 1/10W
R314 1-249-409-11 CARBON 220 5% 1/4W R379 1-216-049-00 METAL GLAZE 1K	8 1/10W
R316 1-216-073-00 METAL GLAZE 10K 5% 1/10W R701 A.1-219-108-11 FUSIBLE 1.5 5	
	% 1/4W % 1/10W % 1W F
R320 1-216-081-00 METAL GLAZE 22K 5% 1/10W R705 A.1-219-110-11 FUSIBLE 150 5 R321 1-216-097-00 METAL GLAZE 100K 5% 1/10W R706 A.1-219-110-11 FUSIBLE 150 5 R322 1-216-073-00 METAL GLAZE 10K 5% 1/10W R707 1-249-425-11 CARBON 4.7K 5	6 1W F
R325 1-216-082-00 METAL GLAZE 24K 5% 1/10W R709 1-249-419-11 CARBON 1.5K 5	% 1/10W % 1/4W % 1/10W
	% 1/10W % 1/10W % 1/10W
R337 1-216-099-00 METAL GLAZE 120K 5% 1/10W R801 1-216-073-00 METAL GLAZE 10K 5	8 1/4W 8 1/10W 8 1/10W
R339 1-216-090-00 METAL GLAZE 51K 5% 1/10W R803 1-216-055-00 METAL GLAZE 1.8K 5 R340 1-216-089-00 METAL GLAZE 47K 5% 1/10W R804 1-216-065-00 METAL GLAZE 4.7K 5 R341 1-216-091-00 METAL GLAZE 56K 5% 1/10W R805 1-216-049-00 METAL GLAZE 1K 5	

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Ref.No.	Part No.	Description			
R806	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R807	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R808	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R809	1-249-393-11	CARBON	10	5%	1/4W
R810	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R811	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R812	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R813	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R814	1-249-393-11	CARBON	10	5%	1/4W
R81 5	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R81 6	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R81 7	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R81 8	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R81 9	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R82 0	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R82 4	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R82 5	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R82 6	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R82 7	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R82 8	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R82 9	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R83 0	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R83 1	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R83 2	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R833	1-216-073-00	METAL GLAZE	1 OK	5%	1/10W
R834	1-247-895-00	CARBON	470K	5%	1/4W
R835	1-247-895-00	CARBON	470K	5%	1/4W
R83 6	1-216-041-00	METAL GLAZE	470	5%	1/10W
R83 7	1-216-041-00	METAL GLAZE	470	5%	1/10W
R83 9	1-216-029-00	METAL GLAZE	150	5%	1/10W
R840	1-216-029-00	METAL GLAZE	150	5%	1/10W
R841	1-216-029-00	METAL GLAZE	150	5%	1/10W
R842	1-216-029-00	METAL GLAZE	150	5%	1/10W
R843	1-216-029-00	METAL GLAZE	150	5%	1/10W
R844	1-216-037-00	METAL GLAZE	330	5%	1/10W
R845	1-216-041-00	METAL GLAZE	470	5%	1/10W
R846	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R847	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R848	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R849	1-249-412-11	CARBON	390	5%	1/4W
R850	1-249-411-11	CARBON	330	5%	1/4W
R852	1-249-412-11	CARBON	390	5%	1/4W
R853	1-249-411-11	CARBON	330	5%	1/4W
R854	1-249-415-11	CARBON	680	5%	1/4W
R855	1-249-417-11	CARBON	1K	5%	1/4W
R856	1-249-426-11	CARBON	5.6K	5%	1/4W
R857	1-249-430-11	CARBON	12K	5%	1/4W
R858	1-249-407-11	CARBON	150	5%	1/4W
R859	1-249-409-11	CARBON	220	5%	1/4W
R860	1-249-411-11	CARBON	330	5%	1/4W
R861	1-249-413-11	CARBON	470	5%	1/4W
R862	1-247-832-11	CARBON	1.1K	5%	1/4W
R863	1-249-417-11	CARBON	1K	5%	1/4W
R864	1-249-420-11	CARBON	1.8K	5%	1/4W
R865	1-249-424-11	CARBON	3.9K	5%	1/4W
R867	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W

Ref.No.	Part No.	Description
		RES, ADJ, CARBON 470 RES, ADJ, CARBON 470
RV42	1-230-500-11	RES, ADJ, CARBON 220K
RV61A RV61B		RES, ADJ, CARBON 470 RES, ADJ, CARBON 470
RV62 RV1 01 RV2 01		RES, ADJ, CARBON 220K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K
RY81	1-515-614-11	RELAY
S11A S11B	1-571-281-21 1-571-281-21	SWITCH, LEAF (HALF DET) SWITCH, LEAF (HALF DET)
S12B S13B	1-571-281-21 1-571-281-21	SWITCH, LEAF (ERASE PROOF-SIDE A) SWITCH, LEAF (ERASE PROOF-SIDE B)
S1 4A S1 4B	1-571-281-21 1-571-281-21	SWITCH, LEAF (CrO2) SWITCH, LEAF (CrO2)
S1 5B S3 01 S3 02	1-571-281-21 1-554-798-31 1-570-845-11	SWITCH, LEAF (METAL) SWITCH, SLIDE (ISS) SWITCH, SLIDE (DOLBY ON/OFF)
\$801 \$802 \$803	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, KEY BOARD (DECK A □) SWITCH, KEY BOARD (DECK A ▷) SWITCH, KEY BOARD (DECK A ◁)
\$804 \$805 \$806	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, KEY BOARD (DECK A < SWITCH, KEY BOARD (DECK A ▷▷) SWITCH, KEY BOARD (DECK B □)
\$807 \$808 \$809	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, KEY BOARD (DECK B) SWITCH, KEY BOARD (DECK B ▷) SWITCH, KEY BOARD (DECK B ▷)
S810 S811 S812 S813	1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, KEY BOARD (DECK B ○) SWITCH, KEY BOARD (DECK B ▷) SWITCH, KEY BOARD (DECK B ▷) SWITCH, KEY BOARD (DECK B ○)
S81 4 S81 5 S81 6 S81 8	1-554-303-21 1-554-303-21 1-554-303-21 1-570-835-11	SWITCH, KEY BOARD (AMS/BLANK SKIP) SWITCH, KEY BOARD(DUBBING SPEED:HIGH) SWITCH, KEY BOARD(DUBBING SPEED:NORMAL) SWITCH, SLIDE (DIRECTION MODE)
T81	1-433-337-11	TRANSFORMER, BIAS OSCILLATION
X801	1-577-082-31	OSCILLATOR, CERAMIC (4MHz)